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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/891,534	06/27/2001	Jeong Hyun Kim	8733.469.00	3209	
30827 75	590 10/05/2004		EXAM	INER	
MCKENNA LONG & ALDRIDGE LLP			TON, MINH TOAN T		
1900 K STREE WASHINGTO			ART UNIT	PAPER NUMBER	
	,		2871		
			DATE MAILED: 10/05/2004	DATE MAILED: 10/05/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/891,534	KIM ET AL.					
Office Action Summary	Examiner	Art Unit					
	Toan Ton	2871					
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	vith the correspondence addres	s				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a r  If NO period for reply is specified above, the maximum statutory perions  Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a eply within the statutory minimum of the od will apply and will expire SIX (6) MC tute, cause the application to become between the course of t	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this community NBANDONED (35 U.S.C. § 133).	nication.				
Status							
1) ☐ Responsive to communication(s) filed on 2a) ☑ This action is FINAL. 2b) ☐ Ti	 his action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1, 3-6, 8-19 and 22-51 is/are pend 4a) Of the above claim(s) is/are withd 5) Claim(s) is/are allowed. 6) Claim(s) 1,3-6,8-19 and 22-51 is/are rejecte 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.						
9)☐ The specification is objected to by the Exami	ner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	· ·	• • •					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for forei  a) All b) Some * c) None of:  1. Certified copies of the priority docume  2. Certified copies of the priority docume  3. Copies of the certified copies of the priority docume  application from the International Bure  * See the attached detailed Office action for a life	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No n received in this National Stag	je				
Attachment(s)							
) Notice of References Cited (PTO-892)		Summary (PTO-413)					
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/C Paper No(s)/Mail Date</li> </ul>		(s)/Mail Date Informal Patent Application (PTO-152 	)				

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## Claim Rejections - 35 USC § 103

1. Claims 1, 3-6, 8-19 and 22-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okibayashi et al (US 5504599) in view of Yokoyama et al (US 6507379).

Okibayashi discloses a liquid crystal display device: a liquid crystal panel having a liquid crystal layer sandwiched between a pair of substrates; an EL structure disposed outside the surface of one of the substrates; wherein the EL structure shares the substrate with the liquid crystal structure (see at least Figures 1(1) and 1(2) of Okibayashi, they show the structures' sharing within the same context as Applicant's, e.g., Figure 2 of the present invention).

Okibayashi discloses the substrates comprising materials such as high molecular compound film.

The limitations not disclosed by Okibayashi are thin film transistors, organic EL structure and the substrates performing polarization function.

EL devices employing inorganic materials yield several disadvantages such as high driving voltages (see col. 1, lines 47-57 of Yokoyama). Therefore, it would have been obvious to one of ordinary skill in the art to employ organic EL element for advantages such as low driving voltages.

The use of thin film transistors is common and known in the art for several advantages such as cross-talk reduction. Therefore, it would have been obvious to one of ordinary skill in the art to employ thin film transistors for advantages such as cross-talk reduction.

The use of a polarizer is common and known in the art for advantages such as high contrast. Further, it is known and a common goal in the art to minimize components, thus resulting in several advantages such as a thinner display, which is accomplished by eliminating

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extra layers. Forming a substrate and a polarizer as a single layer that perform the functions of both with only one layer. Therefore, it would have been obvious to one having ordinary skill in the art to combine the substrate and the polarizer into a single layer (that performs the functions of both) for several advantages such as thinner display.

It has been known in the art that gap(s) existing between layers yields disadvantages such as parallax effect, and thus it has been known in the art to art to minimize or eliminate such gap. Therefore, it would have been obvious to one of ordinary skill in the art to employ the substrate of the LCD panel in direct contact with the light emitting structure for advantages such as reducing parallax effect.

The use of a black matrix is common and known for advantages such as good resolution. Therefore, it would have been obvious to one having ordinary skill in the art to employ a black matrix for advantages such as good resolution.

The use of color filters is common and known for achieving a color display device. Therefore, it would have been obvious to one having ordinary skill in the art to employ color filters for achieving a color display device.

The use of other light emitting structures such as LED is an obvious (i.e., not distinct) variation to one of ordinary skill in the art.

Response to Arguments

2. Applicant's arguments filed 07/09/04 have been fully considered but they are not persuasive.

Okibayashi discloses the EL structure sharing the substrate with the liquid crystal structure (see at least Figures 1(1) and 1(2) of Okibayashi, they show the structures' sharing within the same context as Applicant's, e.g., Figure 2 of the present invention).

## Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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## **Contact Information**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan Ton whose telephone number is (571) 272-2303.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 30, 2004

TOANTON TOANTON TOANTON EXAMINER